

Amendments to the Abstract:

Please replace the Abstract on page 20 with the following amended Abstract:

~~The present invention finds~~ Tools and methods are provided that determine the acoustic impedance of the drilling fluid using reflections from a precise metal disk, ~~and therefrom the density of the drilling fluid.~~ Because the reverberation characteristics of an acoustic wave depend in part on the acoustic wave shape, the first reflection from the metal disk may be used to calibrate the measurement. A method for determining a borehole fluid property ~~is disclosed that~~ includes (i) generating an acoustic signal within a borehole fluid, (ii) receiving reflections of the acoustic signal from the fluid, and (iii) analyzing a reverberation portion of the acoustic signal to determine the property. The analyzing of the reverberation portion may include obtaining a theoretical reverberation signal and relating the measured reverberation signal with the theoretical reverberation signal to determine the borehole fluid property.